			Education, HYI art – II Annual Exam	DERABAD, SINDH.	
	nnual nation 2013	MA	ATH H	YDERABAD BOARD	
	5 Minutes tempt all the questi	ons. Each questions	earries ONE mark.	M. Marks: 15	
(2) Do	not copy down the	e part questions in you r in full against the pro	ur answerbook.		
		estion paper must be n	paper must be attached v mentioned in bold letters		
NOTE: Che		Multiple Choice	tion-A Question (MCQs) h from the given o	ptions	
	characteristic	of log 5.723 is: (b) -1	(c) 0	(d) 2	
2. A ci		ough all the vert	ices of a triangle is	3-7-5	
	scribed circle	-	, ,	d circle of triangle.	
(a) A	LB	of sets A and B i		(d) B x A	
(a) P		(b) Old numbe		mber(d) Whole number	
(a) B	linomial		(c) Monomi	ial (d)None of these	
$6,  \underline{\underline{a}^9} =$					
(a) a 7. The		(b) $a^7$ and $x^4 - 16$ is	(c) a <sup>18</sup>	(d) None of these	
(a) (	$(x^3 - 8)(x^4 - 4)$	(b) $x^4 - 4$	(c) $x - 2$	(d) $x + 2$	
(a)-	3,-2	) then x = (b) 3 , 2 han 90° is called.	(c) -3,2	(d) 3, -2	
(a) A	Acute angle	(b) Obtue angl	ie (c) Right ar	ngle(d)None of these	
10. The triangle having no sides congruent is called  (a) Isosceles triangle  (b) Scalene triangle  (c) Equilateral triangle  (d) Acate triangle					
11. Solu	tion set of $\sqrt{y}$	$\overline{2} = -4$ is		(d) None of these	
12. (sing	8 g 45°)¹ + (cos 00°	$(1.1)^2 = 1$	(c) ( ) (c) 45°	(d) None of these	
13. In 1	2,13,4,4,5,7,9 t		(c) 4	(d) 9	
(a) 3		(46) 27-7	(4)	, -/ -	
logs (a) l	2 0g3 <sup>2</sup>	(b) logs <sup>3</sup>	(c) log <sub>3</sub> 2	(d) log23	
15. 4	0	(-) 0-			
	1 ls a r	matrix			
7.7	Rectangular		(c) Scalar	(d) Diagonal	
(a) 2		(b) 3	(c) 10	(d) 5	
17. The (a) 2	value of Sin 45	(p) <u>↑</u>	(e) -2	(d) <u>1</u>	
13	b) <sup>2</sup> - () = 4			$\sqrt{2}$	
19. In sc	eientific notatio	(b) a + b on 0.000573 is wa	ritten as:	(d) $(a + b)^2$	
20. x <sup>3</sup> - x	$x^2 + 2 = $			0 <sup>-5</sup> ( <b>d</b> ) 0.0573 x 10 <sup>-2</sup>	
	$(x - 1)(x^2 + 2x - 1)(x^2 + 2x - 1)$		(b) $(x + 1)$ (d) $(x + 1)$ (		
	OWED: 2:40 MIN	SECTION		MARKS: 60	
NOTE:		ony TEN of the F ions Carry Equa	Following Question I Marks.	36	
Q -(2)	Define any Transversal.		following and dra	w the figure. Triangl	
Q. (3) Prove that $\cos^2\theta - \sin^2\theta = 1 - 2\sin^2\theta$ Q. (4) Find H.C. F of $x^2 + x - 2$ , $x^3 + 2x^2 + x + 2$ by division method.					
Q. (5)	(i) A x (BUC	(ii) A x		value of ;	
Q, (6)	Find the value	ue of $\underline{x}^2 + \underline{1}$ when $x^2$	$=2+\sqrt{3}$		
<ul> <li>Q. (7) Describe the advantages and disadvantages of mode.</li> <li>Q. (8) What should be added to x<sup>4</sup> + 4x<sup>3</sup> + 10x<sup>2</sup> + 14x + 7 to make it perfect</li> </ul>					
Q. (9) Eliminate {y} from the following equations.					
$\frac{y}{b} + \frac{b}{y} = 2c  \frac{y^2}{b^2} + \frac{b^2}{y^2} = a^2$					
Q. (10)	Simplify $\frac{1}{2a-b}$	+ 1			
Q. (11)			of [3:11 and their	distorance is 15. firms	
	number.				
Q. (12)	4cm. Draw	it circumscribed o	circle.	n)24 = 105° and 0040	
Q. (13) Q. (14)	Factorize any	TWO of the foll	_	TILLIZET.	
Q. (15)			- 1 (iii) 8x³ - 27y6 pressions is 4x⁴ - 3x	$(3 + 2x^2 - a)$ , if one o the	
		x <sup>2</sup> + 2a, then find	the other.		
NOTE	Answer A	SECTION THREE of the	ON – C he Following Quest	tions. 30	
All Quistions Carry Equal Marks.					
Q.(16)	Find the L.C x <sup>3</sup> - y <sup>3</sup> and x <sup>4</sup>		polynomials by fact	torization. x – y , x² - y	
(b)	Solve the equ	uations: $x + y = 4$	- /C - 00°C C -	10 /2 am and a - 10	
Q (17) (a)	(b) A tree of 180dm height on one bank of the river makes angle of 30				
(b)	Q.(1\$)(a) Prove that, if two sides of a triangle are congruent the angle opposite them are also congruent.				
100					
A -	them are also Draw a circ	congruent.	.5 cm. draw a tan	gent at a point M to t	
Q.(18)(a)	Draw a circle.  A father is to	o congruent. cle with radius 4 wice old as his so		gent at a point M to the ration	
Q.(18)(a) (b)	Draw a circle.  A father is to f8.3, find th	o congruent, cle with radius 4 wice old as his so eir present ages.		ir ages were in the ratio	
Q.(18)(a) (b) Q.(19)(a)	Them are also Draw a circle. A father is to f8:3, find th  If A =	o congruent, cle with radius 4 wice old as his so eir present ages.  1 3 B 2 4 B that A9B + C) = A	on, 8 years back the    1	ir ages were in the ratio	